

Appln. No. 10/620,887

Attorney Docket No. 10541-1858

I. Listing of Claims

1. (Currently Amended) A blue glass composition for automotive glazing comprising a soda-lime-silica base and a colorant portion, said colorant portion consisting essentially of:

about 0.4 to 0.65 weight percent total iron oxide in the form of Fe₂O₃,
greater than about 0.1 to about 0.3 weight percent manganese oxide,
cobalt oxide in an amount to produce a cobalt concentration of about
0.0002 to 0.0013 weight percent,

wherein the redox ratio is between about 0.43 and 0.58,

said blue glass composition being characterized by between about 68
to 76 percent Illuminant A transmittance, about 54 to 64 percent ultraviolet
transmittance, about 12 to 22 percent infrared transmittance, a dominant wavelength
between about 486 and 490 nanometers, and a purity excitation between about 7
and 11 percent, as determined at 4.0 mm thickness.

2. (Original) The blue glass composition of claim 1 wherein the base
comprises:

about 68 to 75 weight percent SiO₂,
about 10 to 18 weight percent Na₂O,
about 5 to 15 weight percent CaO,
0 to about 10 weight percent MgO,
0 to about 5 weight percent Al₂O₃; and
0 to about 5 weight percent K₂O.

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3. (Original) The blue glass composition of claim 1 wherein the base is characterized by a total of Na_2O and K_2O between about 10 and 20 weight percent.

4. (Original) The blue glass composition of claim 1 wherein the dominant wavelength is between about 488 and 489 nanometers.

5. (Original) The blue glass composition of claim 1 wherein the total amount of iron oxide is between about 0.45 and 0.55 weight percent.

6. (Original) The blue glass composition of claim 1 wherein the manganese oxide is between about 0.14 and 0.2 weight percent.

7. (Original) The blue glass composition of claim 1 wherein the cobalt concentration due to cobalt oxide is between about 0.0003 and 0.0010 weight percent.

8. (Currently Amended) ~~The A~~ blue glass composition of claim 1 ~~wherein the blue glass composition is for use as automotive or architectural glazing comprising a soda-lime-silica base and a colorant portion, said colorant portion consisting essentially of:~~

about 0.4 to 0.65 weight percent total iron oxide in the form of Fe_2O_3 .

greater than about 0.1 to about 0.3 weight percent manganese oxide,

cobalt oxide in an amount to produce a cobalt concentration of about 0.0002 to 0.0013 weight percent,

wherein the redox ratio is between about 0.43 and 0.58.

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said blue glass composition being characterized by between about 68 to 76 percent Illuminant A transmittance, about 54 to 64 percent ultraviolet transmittance, about 12 to 22 percent infrared transmittance, a dominant wavelength between about 486 and 490 nanometers, and a purity excitation between about 7 and 11 percent, as determined at 4.0 mm thickness.

9. (Original) The blue glass composition of claim 1 wherein the blue glass contains between about 0.03 and 0.12 weight percent SO_3 .

10. (Original) The blue glass composition of claim 1 wherein the blue glass contains between about 0.05 and 0.08 weight percent SO_3 .

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